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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,101	01/13/2004	Steven M. Dubinett	G&C 30435.152-US-I1	3604
22462 7590 09/20/2007 GATES & COOPER LLP HOWARD HUGHES CENTER			EXAMINER	
			UNGAR, SUSAN NMN	
6701 CENTER LOS ANGELE	R DRIVE WEST, SUIT. ES. CA 90045	E 1050	ART UNIT	PAPER NUMBER
,			1642	
			MAIL DATE	DELIVERY MODE
			09/20/2007	PAPER
			07/20/2007	I AI LIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/756,101	DUBINETT ET AL.
Office Action Summary	Examiner	Art Unit
	Susan Ungar	1642
The MAILING DATE of this communication eriod for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION R 1.136(a). In no event, however, may a representation of the company and will expire SIX (6) MON atute, cause the application to become AB	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
atus		
1) Responsive to communication(s) filed on 3	2 .	
· ·	⊆· Γhis action is non-final.	
3) Since this application is in condition for allo		ters, prosecution as to the merits is
closed in accordance with the practice und	·	•
sposition of Claims		
	, ; _ ·	
4) Claim(s) <u>32</u> is/are pending in the applicatio 4a) Of the above claim(s) is/are with		
5) Claim(s) is/are allowed.	urawn from consideration.	
<u> </u>		
6) Claim(s) 32 is/are rejected.		
7) Claim(s) is/are objected to.	od/ov olootion voorvinousout	·
8) Claim(s) are subject to restriction ar	id/or election requirement.	· .
plication Papers		
9) ☐ The specification is objected to by the Exan	niner.	
10) The drawing(s) filed on is/are; a)	accepted or b) objected to	by the Examiner.
Applicant may not request that any objection to	the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the col	rection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.
ority under 35 U.S.C. § 119	•	
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of:	eign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).
1.☐ Certified copies of the priority docum	ents have been received.	
2. Certified copies of the priority docum		opplication No.
3. Copies of the certified copies of the		· · · · · · · · · · · · · · · · · · ·
application from the International Bu		
* See the attached detailed Office action for a		received.
		·
achment(s)		
Notice of References Cited (PTO-892)		Summary (PTO-413)
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)		s)/Mail Date nformal Patent Application
Paper No(s)/Mail Date	6) Other:	

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1. The Amendment filed June 27, 2007 in response to the Office Action of February 27, 2007 is acknowledged and has been entered. Previously pending claim 32 has been amended. Claim 32 is currently being examined.

2. The following rejections are being maintained:

Claim Rejections - 35 USC 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 32 remains rejected under 35 USC 103 for the reasons previously set forth in the action mailed February 27, 2007, Sections 6-7, pages 5-13.

Applicant argues that the references relied upon for their disclosure of SLC teach human SLC while the references relied upon as teaching the other elements of claim 32 teach non-human (murine) models and thus the combination of the human SLC in the WO/038706 and WO 96/06169 disclosures in combination with the murine models in the Kirk, Nishioka, Miller and Lode disclosers will not lead to the claimed invention. The argument has been considered but has not been found persuasive because although each of the references include teachings drawn to murine models, in particular, Nishioka et al, as previously set forth, specifically teach the effective anti tumor treatment of human patients with DCs pulsed with synthetic tumor peptides (see p. 8 of the previous action) and all of WO/038706 and WO 96/06169, Nishioka et al, Kirk and Mule, Miller and Lode provide

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motivation and a reasonable expectation of success in substituting the SLCs of WO/038706 and WO 96/06169 for the DCs of Nishioka et al for use in anti-cancer treatment of syngeneic tumors in human patients.

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Applicant argues that one of skill in the art would not agree with the Patent Office's assertion that one of skill in the art would have found it obvious to combine disclosures relating to GM-CSF, IL-4, IL-7 or IL-2 with those relating to SLC of WO/038706 and WO 96/06169 to arrive at the claimed invention since those of skill in the art understand that one cannot use different cytokines as functional equivalents of each other. Applicant further argues that given the differences in the activities possessed by the cytokines disclosed in the references. one cannot use a function activity possessed by GM-CSF, IL-4, IL-7 or IL-2 to predict the functional activity of SLC. The argument has been considered but has not been found persuasive because Examiner takes note and the secondary references disclose that each of the cytokines disclosed are known, successful antitumor immunomodulatory agents, regardless of their mechanism of action. Given that WO/038706 and WO 96/06169 specifically teach that SLC is an anti-tumor immodulatory agent wherein the references are specifically drawn to treating cancer with said immunomodulatory agent, it is clear that the cytokines, all of which are anti-tumor immuomodulatory agents, are functional equivalents each for the other and substitution of one for the other is obvious for the reasons of record.

The arguments have been considered but have not been found persuasive and the rejection is maintained.

- 5. No claims allowed.
- 6. All other objections and rejections set forth in the previous action are hereby withdrawn.

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7. This action is a **final rejection** and is intended to close the prosecution of this application. Applicant's reply under 37 CFR 1.113 to this action is limited either to an appeal to the Board of Patent Appeals and Interferences or to an amendment complying with the requirements set forth below.

If applicant should desire to appeal any rejection made by the examiner, a Notice of Appeal must be filed within the period for reply identifying the rejected claim or claims appealed. The Notice of Appeal must be accompanied by the required appeal fee.

If applicant should desire to file an amendment, entry of a proposed amendment after final rejection cannot be made as a matter of right unless it merely cancels claims or complies with a formal requirement made earlier. Amendments touching the merits of the application which otherwise might not be proper may be admitted upon a showing a good and sufficient reasons why they are necessary and why they were not presented earlier.

A reply under 37 CFR 1.113 to a final rejection must include the appeal from, or cancellation of, each rejected claim. The filing of an amendment after final rejection, whether or not it is entered, does not stop the running of the statutory period for reply to the final rejection unless the examiner holds the claims to be in condition for allowance. Accordingly, if a Notice of Appeal has not been filed properly within the period for reply, or any extension of this period obtained under either 37 CFR 1.136(a) or (b), the application will become abandoned. This action is a **final rejection** and is intended to close the prosecution of this application. Applicant's reply under 37 CFR 1.113 to this action is limited either to an appeal to the Board of Patent Appeals and Interferences or to an amendment complying with the requirements set forth below.

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8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R., 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE

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OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan Ungar, PhD whose telephone number is (571) 272-0837. The examiner can normally be reached on Monday through Friday from 7:30am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shanon Foley, can be reached at 571-272-0898. The fax phone number for this Art Unit is (571) 273-8300.

Susan Ungar

Primary Patent Examiner

September 5, 2007